

WHAT IS CLAIMED IS:

1. A dynamic absorber for a washing machine, comprising:

a fixing member provided at a bottom of an outer tub; and

a dynamic absorption member being extended from an outer surface of the fixing member and vibrating when the outer tub vibrates and thereby absorbing the vibration of the outer tub, the dynamic absorption member comprising:

an extension member extended from the outer surface of the fixing member in a radial direction; and

a mass member provided around an outer circumference of the extension member.

2. The dynamic absorber of the washing machine of claim 1, further comprising a supporting member being provided under the bottom of the outer tub and being coupled with the fixing member.

3. The dynamic absorber of the washing machine of claim 2, wherein the supporting member comprises a fixing groove formed on a bottom thereof for receiving a top of the fixing member.

4. The dynamic absorber of the washing machine of claim 1, wherein the fixing member is formed in a ring form.

5. The dynamic absorber of the washing machine of claim 1, wherein the extension member further comprises a plurality of equally spaced bars being extended in a radial direction.

6. The dynamic absorber of the washing machine of claim 1, wherein the extension member comprises a round plate.

7. The dynamic absorber of the washing machine of claim 6, further comprising a plurality of ribs provided on a top surface of the extension member for supporting the extension member.

8. The dynamic absorber of the washing machine of claim 7, wherein each of the plurality of ribs has a first end connected to the outer surface of the fixing member and a second end being connected to an inner surface of the additional mass member.

9. The dynamic absorber of the washing machine of claim 1, wherein a bearing housing is provided at the bottom of the outer tub and the fixing member is provided on an outer circumferential surface of the bearing housing.

10. A washing machine comprising:

a cabinet;

an outer tub provided in the cabinet for storing wash water;

an inner tub rotatably provided in the outer tub for receiving a load of clothes;

a driving motor rotating the inner tub;

a drive shaft having a first end coupled to the inner tub and a second end being coupled to the driving motor;

a fixing member provided at a bottom of the outer tub; and

a dynamic absorption member extended from an outer surface of the fixing member and vibrating when the outer tub vibrates and thereby absorbing the vibration of the outer tub, the dynamic absorption member comprising:

an extension member extended from the outer surface of the fixing member in a radial direction; and

a mass member provided at an outer end of the extension member.

11. The washing machine of claim 10, further comprising a supporting member being provided under the bottom of the outer tub and coupled with the fixing member.

12. The washing machine of claim 11, wherein the supporting member further comprises a fixing groove receiving the top of the fixing member at a bottom of the supporting member.

13. The washing machine of claim 10, wherein the fixing member is formed in a ring form.

14. The washing machine of claim 10, wherein the extension member comprises a plurality of equally spaced bars being extended in a radial direction.

15. The washing machine of claim 10, wherein the extension member comprises a round plate.

16. The washing machine of claim 15, further comprising a plurality of ribs provided on a top surface of the extension member for supporting the extension member.

17. The washing machine of claim 16, wherein each of the plurality of ribs has a first end connected to the outer surface of the fixing member and a second end being connected to an inner surface of the mass member.

18. The washing machine of claim 10, wherein a bearing housing is provided for supporting the drive shaft at the bottom of the outer tub and the fixing member is provided on an outer circumferential surface of the bearing housing.